

# KODIAK®

## Flowable Biological Fungicide

FOR USE AS A SEED TREATMENT

**ACCEPTED**

MAY 31 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 7501-17

**ACTIVE INGREDIENT:**

*Bacillus subtilis* GBO3 (5.0 X 10<sup>10</sup> viable spores per milliliter) ..... 1.37%

**INERT INGREDIENTS:** ..... 98.63 %

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See Additional Precautionary Statements.

EPA Reg. No. 7501-175

EPA Est. No. 71065-NY-001

Net Contents:

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

**CAUTION**

Causes skin irritation. Avoid contact with eyes, skin or clothing. In case of contact, flush affected area with plenty of water. Repeated or prolonged excessive exposure may lead to sensitization of skin and lungs in susceptible individuals. When applying or handling concentrate or in the absence of adequate ventilation, wear a paper dust mask which covers at least one-third of the face. Wash face, hands and arms thoroughly with soap and water after handling and before eating or smoking.

**First Aid**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**If on skin or clothing:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 - 20 minutes.
- Call a poison control center or doctor for treatment advice.

**If in eyes:**

- Hold open and rinse slowly and gently with water for 15 - 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

•Call a poison control center or doctor for treatment advice.

**Environmental Hazards**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Cover or incorporate spilled seed or seed on soil surface.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours. Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, water-proof gloves, and shoes plus socks and protective eyewear.



**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Do not contaminate water by cleaning of equipment or disposal of wastes.

**PRODUCT DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

KODIAK Flowable contains bacteria which colonize the developing root system, suppressing disease organisms such as *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus* that attack root systems. When used with a chemical seed treatment, the combination of chemicals and KODIAK Flowable provides protection to the root for a much longer time than with chemicals alone. As the root system develops, the bacteria grow with the roots extending the protection throughout the growing season. As a result of this biological protection, a vigorous root system is established by the plant, which often results in more uniform stands and greater yields.

In addition, KODIAK Flowable has been shown to increase the amount of nodulation by nitrogen-fixing bacteria when used on many legumes. This improvement in nodulation is a result of a healthier root system allowing more sites for nodules to form from naturally-occurring soilborne nitrogen-fixing bacteria.

**FOR USE AS A SEED TREATMENT**

KODIAK Flowable may be applied as a water-based slurry with other registered seed treatment insecticides and fungicides through standard slurry or mist commercial seed treatment equipment. To mix, first add the chemical insecticides and/or fungicides to the slurry mix with approximately 1/2 of the required water. Slowly add the KODIAK Flowable to the slurry until a uniform suspension is obtained. Add the remainder of the required water and maintain continuous agitation. Do not store mixed slurries for longer than 72 hours.

**APPLICATION RATES**

May be used in combination with other registered Gustafson seed treatment fungicides and insecticides. Pre-test for compatibility with other seed treatment products.

**COTTON:** For suppression of *Rhizoctonia* and *Fusarium* seedling diseases, apply 0.5 fl. oz. per 100 lbs. of seed.

**SEED AND POD VEGETABLES** (such as) green beans, snap beans, lima beans, kidney beans, navy beans, pinto beans, wax beans, pole beans, garden peas, peas and field beans: For suppression of root diseases caused by *Rhizoctonia* and *Fusarium*, apply 0.25 fl. oz. per 100 lbs. of seed. For improvement of nodulation by *Rhizobium* in fields where appropriate strains are detectable, apply at 0.25 fl. oz. per 100 lbs. of seed.

**SOYBEANS:** For suppression of root diseases caused by *Rhizoctonia* and *Fusarium* and for improvement of nodulation by *Bradyrhizobium*, apply at 0.25 fl. oz. per 100 lbs. of seed.

**WHEAT AND BARLEY:** For suppression of root diseases caused by *Rhizoctonia* and *Fusarium*, apply 0.1 - 0.2 fl. oz. per 100 lbs. of seed.

**ALL OTHER AGRICULTURAL SEEDS:** For suppression of root diseases caused by *Fusarium* and *Pythium*, apply 0.2 - 1.0 fl. oz. per 100 lbs. of seed. Adjust rate accordingly to provide good coverage. Larger seed, because of reduced surface area, require less product per 100 pounds than smaller seed.

**FOR APPLICATIONS OF KODIAK FL  
IN THE FIELD BY THE GROWER**

KODIAK FL when packaged in 32 fl. oz. (one-quart) 'Tip-and-Pour' containers are filled to a 16 fl. oz. volume. Prior to applying KODIAK FL to cottonseed in a "downstream" application, KODIAK FL must be mixed thoroughly with an equal volume (16 fl. oz.) of clean tap or well water. Mixing must be done directly in the 'Tip-and-Pour' container. The 50/50 mixture of the KODIAK FL and water (now a total of 32 fl. oz.) will treat a total of 64 bags (32 cwts.) of cottonseed per container. Each time the 'Tip-and-Pour' container is inverted, the pouring chamber will have 2.0 fl. oz. of the mixture. To obtain an appropriate amount of KODIAK FL to treat 8 bags of cottonseed, two 'tips' must be made to measure the correct amount of KODIAK FL.

**NOTICE - READ CAREFULLY  
CONDITIONS OF SALE AND  
LIMITED WARRANTY STATEMENT**

Treatment of highly mechanically damaged seed, or seed of known low vigor and poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination tests on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of Gustafson LLC no claims are made to guarantee germination of carry-over seed.

As its sole express warranty, Gustafson LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for purposes stated on the label only when used in accordance with directions and instructions specified on the label, subject to the inherent risks set forth above. ONLY AS PERMITTED BY APPLICABLE LAW, IN THE EVENT OF A BREACH OF THIS LIMITED WARRANTY, GUSTAFSON LLC SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES. SUBJECT TO APPLICABLE LAW, GUSTAFSON LLC NEITHER MAKES NOR AUTHORIZES ANY OF ITS AGENTS OR REPRESENTATIVES TO MAKE ANY WARRANTY OF FITNESS OR MERCHANTABILITY, GUARANTY OR REPRESENTATION, EXPRESS OR IMPLIED, CONCERNING THIS MATERIAL. Buyer assumes the responsibility to handle, use and store this product in accordance with the safety instructions and use directions contained on the label. Buyer/User purchases this product subject to the foregoing Conditions of Sale and Limited Warranty, which, subject to applicable law, may be varied only by a written agreement signed by a duly authorized representative of Gustafson LLC. If these terms are not acceptable, return all products to the place of purchase, unopened for a full refund.

A quality product manufactured for:  
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